Mathematics

Correlation template for Wisconsin's Model Academic Standards

Wisconsin's Model Academic Standards

Our state has established rigorous goals for teaching and learning in 18 subject areas. As defined in the introduction to each document:

> *Academic standards specify what students should know and be able to do, what they might be asked to do to give evidence of standards, and how well they must perform. They include content, performance, and proficiency standards.*
>
> - *Content standards refer to what students should know and be able to do.*
> - *Performance standards tell how students will show that they are meeting a standard.*
> - *Proficiency standards indicate how well students must perform.*

Paraphrased Standards

In this document, you will find that the performance standards have been reworded to fit the tables. We hope these shortened statements will give some meaning to the numbers and letters of the standards as you refer to the tables. While every attempt has been made to preserve the intent of the standards, you should always consult the original wording for clarification, reference, and further correlations.

About These Templates

These Microsoft Word templates were originally used to correlate Project Learning Tree activities with Wisconsin's Model Academic Standards. You will find these PLT correlations at www.dnr.state.wi.us. Search for Project Learning Tree or follow the links to educator resources. Many educators requested access to the blank templates to streamline correlating their own programs with the standards. These templates have been developed in Word 2000 and tested in Word 97. We designed these tables to be used as you see them and cannot make any guarantees about your success at modifying the layout, fonts, or other format attributes. We have tried to make them user-friendly by setting styles for entry and embedding the fonts. We suggest you establish shortcuts for the entry of symbols into the tables to save time and frustration. Both ❋ and • are from "Wingdings2."

Project Sponsors

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A. Mathematical Processes

Content Standard

Students in Wisconsin will draw on a broad body of mathematical knowledge and apply a variety of mathematical skills and strategies, including reasoning, oral and written communication, and the use of appropriate technology, when solving mathematical, real-world and nonroutine problems.

* ✱ Activity directly addresses the achievement of the standard.
* • Activity reinforces or supports the achievement of the standard.

Name of your program	Grade	Performance Standards: Grade 4							Grade 8						
		A.4.1 Use reasoning abilities	A.4.2 Communicate mathematical ideas in a variety of ways	A.4.3 Connect mathematical learning with other subjects	A.4.4 Use appropriate mathematical language	A.4.5 Explain solutions to problems clearly and logically			A.8.1 Use reasoning abilities	A.8.2 Communicate logical arguments to explain results	A.8.3 Analyze nonroutine problems	A.8.4 Develop effective oral and written presentations	A.8.5 Explain mathematical concepts, procedures, and ideas	A.8.6 Read and understand mathematical texts	
list of activities															

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B. Number Operations and Relationships

Content Standard

Students in Wisconsin will use numbers effectively for various purposes, such as counting, measuring, estimating, and problem solving.

- ✱ Activity directly addresses the achievement of the standard.
- • Activity reinforces or supports the achievement of the standard.

		Performance Standards														
		Grade 4							Grade 8							
Name of your Program	Grade	B.4.1 Represent and explain numbers	B.4.2 Determine the number of things in a set	B.4.3 Read, write, and order various numbers	B.4.4 Identify and represent equivalent fractions	B.4.5 Select and use appropriate computational procedures	B.4.6 Add and subtract fractions with like denominators	B.4.7 Add and subtract monetary decimals	B.8.1 Read, represent, and interpret rational numbers	B.8.2 Perform and explain operations on rational numbers	B.8.3 Generate and explain equivalencies	B.8.4 Express order relationships among rational numbers	B.8.5 Apply proportional thinking in problem situations	B.8.6 Model and solve problems involving number-theory	B.8.7 Use appropriate computational procedures
List of activitie																

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C. Geometry

Content Standard

Students in Wisconsin will be able to use geometric concepts, relationships, and procedures to interpret, represent, and solve problems.

✱ Activity directly addresses the achievement of the standard.
• Activity reinforces or supports the achievement of the standard.

		Performance Standards														
		Grade 4							Grade 8							
Name of your program	Grade	C.4.1 Describe two-and three-dimensional figures	C.4.2 Use physical materials and motion geometry	C.4.3 Identify and use relationships among figures	C.4.4 Use simple two-dimensional coordinate systems				C.8.1 Describe complex two- and three-dimensional figures	C.8.2 Identify and use relationships among figures	C.8.3 Identify 3D shapes from 2D perspectives	C.8.4 Perform transformations on two-dimensional figures	C.8.5 Locate objects using the rectangular coordinate system			
List of activities																

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D. Measurement

Content Standard

Students in Wisconsin will select and use appropriate tools (including technology) and techniques to measure things to a specified degree of accuracy. They will use measurements in problem-solving situations.

* ✱ Activity directly addresses the achievement of the standard.
* • Activity reinforces or supports the achievement of the standard.

Name of your Program	Grade	Performance Standards: Grade 4							Grade 8						
		D.4.1 Recognize and describe measurable attributes	D.4.2 Demonstrate understanding of measurement	D.4.3 Read and interpret measuring instruments	D.4.4 Determine measurements directly using standard tools	D.4.5 Determine measurements by using basic relationships			D.8.1 Identify and describe attributes in complicated situations	D.8.2 Demonstrate basic measurement principles	D.8.3 Determine measurements directly using standard units	D.8.4 Determine measurements indirectly			
List of activities															

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E. Statistics and Probability

Content Standard

Students in Wisconsin will use data collection and analysis, statistics and probability in problem-solving situations, employing technology where appropriate.

✱ Activity directly addresses the achievement of the standard.
• Activity reinforces or supports the achievement of the standard.

		Performance Standards														
		Grade 4							Grade 8							
Name of your program	Grade	E.4.1 Work with data in real-world situations	E.4.2 Describe a set of data	E.4.3 Read, extract, and use data to solve problems	E.4.4 Determine the occurrence of future events	E.4.5 Predict outcomes of future events and test predictions			E.8.1 Work with data real-world situations	E.8.2 Organize and display data from statistical investigations	E.8.3 Extract, interpret, and analyze data	E.8.4 Use the results of data analysis	E.8.5 Compare several sets of data	E.8.6 Evaluate presentations and statistical analyses	E.8.7 Determine the likelihood of simple events	
List of activities																

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F. Algebraic Relationships

Content Standard

Students in Wisconsin will discover, describe, and generalize simple and complex patterns and relationships. In the context of real-world problem situations, the student will use algebraic techniques to define and describe the problem to determine and justify appropriate solutions.

* ✱ Activity directly addresses the achievement of the standard.
* • Activity reinforces or supports the achievement of the standard.

Name of your program	Grade	Performance Standards: Grade 4							Grade 8						
		F.4.1 Use letters, boxes, or symbols to stand for numbers	F.4.2 Use the vocabulary, symbols, and notation of algebra	F.4.3 Work with simple linear patterns and relationships	F.4.4 Recognize variability in simple functional relationships	F.4.5 Use simple equations and inequalities	F.4.6 Recognize and use generalized properties and relations		F.8.1 Work with algebraic expressions in a variety of ways	F.8.2 Work with linear and nonlinear patterns & relationships	F.8.3 Recognize, describe & analyze functional relationships	F.8.4 Use linear equations and inequalities in many ways	F.8.5 Recognize and use generalized properties and relations		
List of activities															